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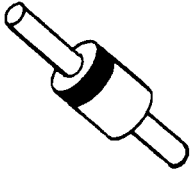
SSDI

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La Mirada, California 90638
P. O. Box 577
La Mirada, California 90637
(213) 921-9660
TWX 910-583-4807

SHE15 THRU SHE100

600 MA—2 AMP, HIGH VOLTAGE STANDARD RECOVERY RECTIFIER

1500—10,000 VOLTS

CASE STYLE S**FEATURES**

- INJECTION MOLDED EPOXY PACKAGE
- SOLID SILVER LEADS
- MATCHED JUNCTION CHARACTERISTICS
- METALLURGICALLY BONDED JUNCTIONS
- REPLACES HIGH VOLTAGE EPOXY "STICK" PACKAGES

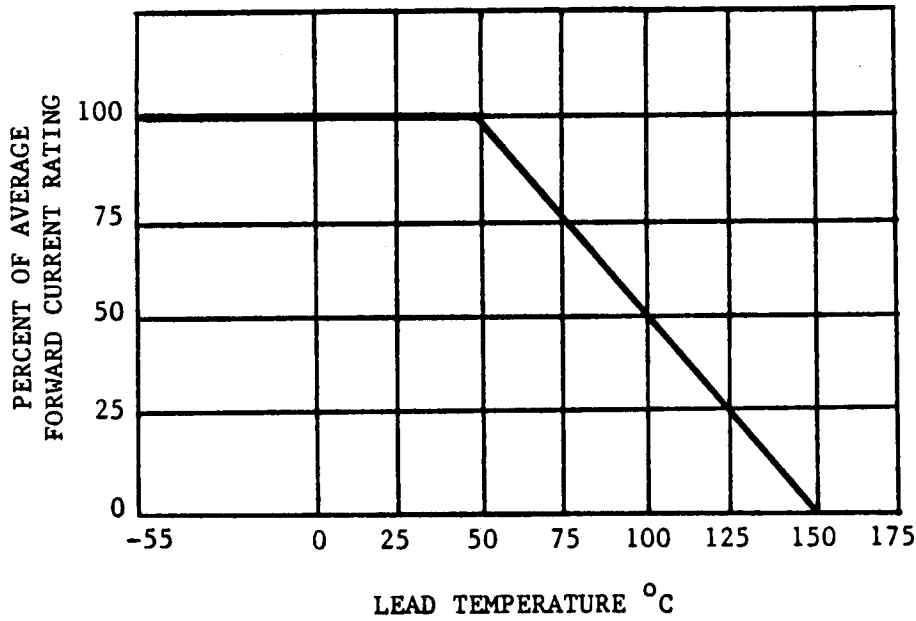
PART NUMBER	PEAK INVERSE VOLTAGE PIV	AVERAGE RECTIFIED CURRENT I_O		MAXIMUM REVERSE CURRENT @ PIV I_R		MAXIMUM FORWARD VOLTAGE @55°C I_O V_F	MAX SURGE CURRENT 1 CYCLE I_{FS}	MAX REVERSE RECOVERY TIME T_{RR}^*	MAXIMUM JUNCTION CAPACITANCE C_J	TYPICAL THERMAL IMPEDANCE θ_{J-L}
		55°C	100°C	25°C	100°C					
	VOLTS	mA	mA	uA	uA	VOLTS	AMPS	u sec.	pf	°C/W
SHE 15	1500	2000	1000	1.0	25	5.5	60	5	15	9
SHE 20	2000	2000	1000	1.0	25	5.5	60	5	15	9
SHE 25	2500	2000	1000	1.0	25	5.5	60	5	15	9
SHE 30	3000	1000	500	1.0	25	8.5	40	5	12	12
SHE 40	4000	1000	500	1.0	25	8.5	40	5	12	12
SHE 50	5000	1000	500	1.0	25	8.5	40	5	12	12
SHE 60	6000	600	300	1.0	25	12.0	25	5	8	14
SHE 80	8000	600	300	1.0	25	12.0	25	5	8	14
SHE 100	10000	600	300	1.0	25	12.0	25	5	8	14

*Reverse recovery test conditions: $I_F = .5A$, $I_R = 1A$, $IRR = .25A$.

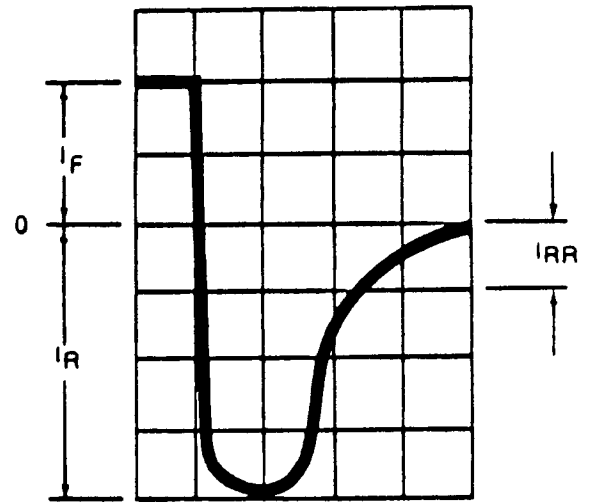
1. Operating and testing over 10,000 V/inch may require encapsulation or immersion in a suitable dielectric material.
2. Maximum forward voltage measured with instantaneous forward pulse of 8.3 ms.
3. Maximum lead temperature for soldering is 250°C, 3/8 inch from case for 5 seconds maximum.
4. Operating and storage temperature -65° to +150°C.

NOTE: All specifications subject to change without notice.

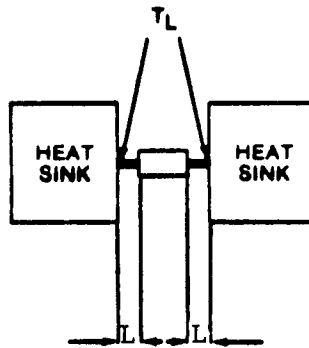
MAXIMUM FORWARD CURRENT' VS. LEAD TEMPERATURE



REVERSE RECOVERY WAVE FORM



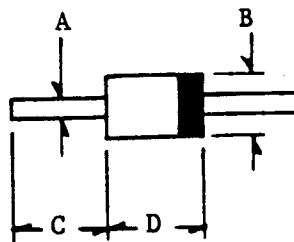
THERMAL IMPEDANCE
● J-L INFORMATION



HEAT SINKS ARE INFINITE
 T_L = LEAD TEMP. ADJACENT TO
HEAT SINK

T_J = TEMP. OF CENTER JUNCTION.
EXPOSED PORTION OF LEADS
SHALL BE FREE OF PAINT,
GREASE, OR COATINGS OF
ANY KIND.

BODY MATERIAL = EPOXY
LEAD MATERIAL = SILVER



A = .060 $\pm$.003 DIA

B = .200 $\pm$.015 DIA

C = .4 MIN

D = .250 $\pm$.015 DIA

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